

IN THE CLAIMS:

Please cancel Claims 1, 2, and 6-9, without prejudice or disclaimer of subject matter. Please amend Claims 4 and 5 and add new Claims 17-20, as indicated below. The following is a complete listing of claims and replaces all prior versions and listings of claims in the present application:

1. - 3. (Cancelled).

4. (Currently Amended) The method according to claim [[1,]] 5, wherein the first field error-detecting encoding information is included in a main header defined in the JPEG 2000 standard format and the second field error-detecting encoding information is included in a comment defined in the JPEG 2000 standard format.

5. (Currently Amended) An information processing method for decrypting encrypted encoded image data comprising steps of:

inputting receiving the encrypted encoded image data and corresponding header data, wherein the header data includes including a first field storing first error-detecting encoding information and second error-detecting encoding indicating whether the encoded image data has an error detecting code for detecting an error in the encoded image data, wherein the first field is referenced by a decoding process, and a second field storing information indicating whether the encoded image data has the error detecting code for detecting the error in the encoded image data, wherein the second field is not referenced by the decoding process;

determining, based on the second error-detecting-encoding information stored in the second field information, whether the inputted encrypted encoded image data includes an error-detecting code;

determining whether key information required to decrypt the inputted encrypted encoded image data is available;

modifying, if the second error-detecting-encoding information indicates that the inputted encrypted encoded image data includes the error detecting code, the inputted header data, including modifying the first error-detecting-encoding information to indicate field to store information indicating that the inputted encrypted encoded image data includes the error detecting code, if the information stored in the second field indicates that the encrypted encoded image data includes the error detecting code and the key information is available.

wherein, if the information stored in the second field does not indicate that the encrypted encoding image data includes the error detecting code and the key information is available, the first field is not modified, and

wherein, if the key information is not available, the first field is not modified;

decrypting, if the key information is available, the inputted encrypted encoded image data; and

outputting the decrypted image data and the modified header data to an encoded image data decoding process

decrypting the encrypted encoded image data to generate encoded image data, if the information stored in the second field indicates that the encrypted encoded image data includes the error detecting code and the key information is available; and

decrypting the encrypted encoded image data, if the information stored in the second field does not indicate that the encrypted encoding image data includes the error detecting code and the key information is available,

wherein, if the key information is not available, the encrypted encoded image data is not decrypted.

6. - 16. (Cancelled).

17. (New) An information processing apparatus for decrypting encrypted encoded image data, the apparatus comprising:

an input unit that receives the encrypted encoded image data and corresponding header data, the header data including a first field storing information indicating whether the encoded image data has an error detecting code for detecting an error in the encoded image data, wherein the first field is referenced by a decoding process, and a second field storing information indicating whether the encoded image data has the error detecting code for detecting the error in the encoded image data, wherein the second field is not referenced by the decoding process;

a first determination unit that determines, based on the information stored in the second field, whether the encrypted encoded image data includes an error-detecting code;

a second determination unit that determines whether key information required to decrypt the encrypted encoded image data is available;

a modification unit that modifies the first field to store information indicating that the encrypted encoded image data includes the error detecting code, if the information stored in

the second field indicates that the encrypted encoded image data includes the error detecting code and the key information is available,

wherein, if the information stored in the second field does not indicate that the encrypted encoding image data includes the error detecting code and the key information is available, the first field is not modified, and

wherein, if the key information is not available, the first field is not modified;

a decryption unit that decrypts the encrypted encoded image data to generate encoded image data, if the information stored in the second field indicates that the encrypted encoded image data includes the error detecting code and the key information is available, and that decrypts the encrypted encoded image data, if the information stored in the second field does not indicate that the encrypted encoding image data includes the error detecting code and the key information is available,

wherein, if the key information is not available, the encrypted encoded image data is not decrypted.

18. (New) The information processing apparatus according to claim 17, wherein the first field is included in a main header defined in the JPEG 2000 standard format and the second field is included in a comment defined in the JPEG 2000 standard format.

19. (New) A computer-readable storage medium storing a program which, when executed, performs an information processing method for decrypting encrypted encoded image data comprising steps of:

receiving the encrypted encoded image data and corresponding header data, the header data including a first field storing information indicating whether the encoded image data has an error detecting code for detecting an error in the encoded image data, wherein the first field is referenced by a decoding process, and a second field storing information indicating whether the encoded image data has the error detecting code for detecting the error in the encoded image data, wherein the second field is not referenced by the decoding process;

determining, based on the information stored in the second field, whether the encrypted encoded image data includes an error-detecting code;

determining whether key information required to decrypt the encrypted encoded image data is available;

modifying the first field to store information indicating that the encrypted encoded image data includes the error detecting code, if the information stored in the second field indicates that the encrypted encoded image data includes the error detecting code and the key information is available,

wherein, if the information stored in the second field does not indicate that the encrypted encoding image data includes the error detecting code and the key information is available, the first field is not modified, and

wherein, if the key information is not available, the first field is not modified;

decrypting the encrypted encoded image data to generate encoded image data, if the information stored in the second field indicates that the encrypted encoded image data includes the error detecting code and the key information is available; and

decrypting the encrypted encoded image data, if the information stored in the second field does not indicate that the encrypted encoding image data includes the error detecting code and the key information is available,

wherein, if the key information is not available, the encrypted encoded image data is not decrypted.

20. (New) The computer-readable storage medium according to claim 19, wherein the first field is included in a main header defined in the JPEG 2000 standard format and the second field is included in a comment defined in the JPEG 2000 standard format.